

A B S T R A C T

~~PROCESS FOR MANUFACTURING A MICROWAVE WINDOW FOR THE SEPARATION
OF MEDIA AND WINDOW RESULTING FROM THE PROCESS~~

The invention relates to a method of manufacturing a microwave window ~~(26, 50, 80)~~ for the separation of media ~~(32, 34)~~, comprising a separating disk ~~(36, 54, 81, 90, 100, 130, 145, 147)~~ transparent to the electromagnetic microwaves and at least one collet ~~(42, 44, 52, 84, 102, 104, 161, 164)~~ in the form of a circular cylindrical tube brazed via one of its edges onto one of the two faces ~~(38, 40, 82, 83, 101, 132, 136)~~ of the disk, characterized in that it includes at least one step consisting in depositing a thin film of active braze ~~[(86)]~~ on that edge of the collet which is intended to be brazed onto one of the two faces of the disk, and then in brazing the tube onto the disk. The invention also relates to a media-separating microwave window resulting from the process, having at least one collet in the form of a circular cylindrical tube with a generatrix close to a straight line. Applications: high-power microwave tubes, microwave transmission lines.

~~Figure 6~~